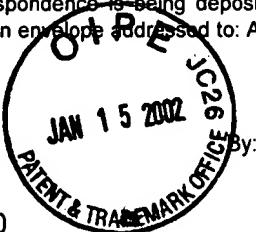


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DOCKET NO.: 58600-8197.US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Harbury, P. et al.

SERIAL NO.: 09/421,422

FILED: 10/19/99

FOR: DNA-TEMPLATED COMBINATORIAL  
LIBRARY CHEMISTRY

EXAMINER: Koroma, B.

ART UNIT: 1627

**AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

This amendment is in response to the Office Action mailed May 25, 2001 in the above-identified application.

In the Claims:

Please amend claims 1 as follows:

1. (Amended) A method of tag-directed synthesis of a plurality of compounds, comprising:

(a) forming a first group of subsets of nucleic acid tags, where the nucleic acid tags in each subset each has a selected one of a plurality of different first hybridization sequences, a mixture of different second hybridization sequences, and a chemical reaction site,

(b) reacting the chemical reaction sites in each of the subsets formed in (a) with a first selected reagent, thereby to form a reagent-specific compound intermediate on the associated sequence in each subset,

(c) forming a second group of subsets of the reacted nucleic acid tags, where the tags in each subset each have a selected one of a plurality of different second hybridization sequences,

A